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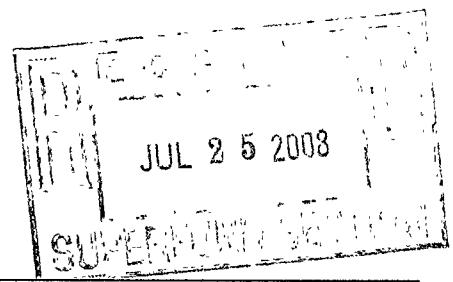
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ENGINEERING • ENVIRONMENTAL • GEOTECHNICAL
310 HUBERT STREET, RALEIGH, NC 27603 USA
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To: NCDENR, Inactive Hazardous Sites Branch
401 Oberlin Road, Suite 150
1646 Mail Service Center
Raleigh, NC 27699-1646

Attn: Mr. Bruce Lefler, Jr.

Date: 7/22/08

F&R No.: D66-130

Reference: Mt. Holly Facility
Incident # 11184

We are sending you Attached Under separate cover via _____

The following items:

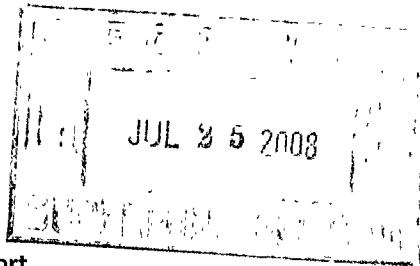
- Engineering Reports Prints Copy of Letter Plans
 Test Reports Samples Contract Other: _____

COPIES	DATE	NO.	DESCRIPTION
3	7/22/08		June 2008 Groundwater Sampling Event Report

Remarks:

Distribution: Robert Gron, NCDFR

Signed



First Semi-annual 2008 Natural
Attenuation Groundwater Sampling Report
NCDENR, Division of Forest Resources
District 12 Headquarters
Mount Holly, North Carolina
F&R Project No. D66-130E
July 22, 2008

Incident Name: NC Forest Service-Hydraulic Lifts
Location: 1933 Mountain Island Highway (Hwy 273), Mount Holly, North Carolina 28120
GW Incident Number: 20181
Facility ID Number: 0-021807
Risk Classification: High, 105B
UST/Property Owner: North Carolina Division of Forest Resources (NCDFR), 1616 Mail Service Center, Raleigh, NC 27699-1616, (919) 733-2162
Consultant: Froehling and Robertson, Inc., 310 Hubert Street, Raleigh, North Carolina 27603, (919) 828-3441
Date Release Discovered: March 18, 1997
Estimated Quantity Released: Unknown
Cause and Source of Release: Unknown
Size and Contents of Former UST System Two 70 gallon capacity hydraulic fluid USTs (Installed in 1973 and Removed in 1997)
Latitude/Longitude: Latitude-N35° 19' 526" Longitude-W80° 59' 51"

Prepared by:

Michael S. Sabodish, Jr., Ph.D., P.E.
Soil and Groundwater Services Manager



Reviewed by:

Joseph E. Starr, P.E.
Regional Director



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1.0 SITE INFORMATION AND THE RESULTS OF GROUNDWATER SAMPLING ACTIVITIES

The following Natural Attenuation Groundwater Sampling Report has been prepared by Froehling & Robertson, Inc. (F&R) for the North Carolina Department of Environment and Natural Resources, Division of Forest Resources (NCDFR) District 12 Headquarters facility located on Highway 273 in Mount Holly, North Carolina. The location of the facility is shown on Figure 1.

1.1 MONITORING WELL SAMPLING

Groundwater sampling was performed on June 3, 2008 in monitoring wells MW-A1, MW-A3, MW-10, MW-11 and MW-12. Monitoring well MW2 was damaged, as the concrete apron was destroyed, and the locking well cap was missing. The well was filled in with dirt, rocks and debris and therefore, was not able to be sampled. Prior to sampling, each monitoring well was gauged with a Keck oil-water interface probe. Groundwater measurements are included in Table 1. The groundwater samples were collected using disposable polyethylene bailers and new nylon line and poured into laboratory supplied 1-liter sample bottles. The samples were collected for analysis of semi-volatile compounds using EPA method 8270 and extractable petroleum hydrocarbons using an analytical method developed by the Massachusetts Department of Environmental Protection (MADEP EPH). The groundwater samples that were collected for analysis by MADEP EPH were preserved with hydrochloric acid. The samples were placed into a cooler chilled with ice and submitted to Pace Analytical Services in Huntersville, NC.

1.2 WATER SUPPLY WELL SAMPLING

Water supply wells WSW-2, WSW-4 and WSW-5 were sampled on June 3, 2008. Prior to sampling, each well was purged for a minimum of 15 minutes. The samples were poured into laboratory supplied 1-liter sample bottles and were collected for analysis of semi-volatile compounds using EPA method 8270 and MADEP EPH. The samples were placed into a cooler chilled with ice and submitted to Pace Analytical Services in Huntersville, NC.



1.3 SUMMARY OF ANALYTICAL RESULTS

Semi-volatile Compounds: Semi-volatile compounds were not detected by EPA method 8270 analysis in the samples collected from the monitoring wells or water supply wells sampled on June 3, 2008.

MADEP EPH: Laboratory analysis by MADEP EPH did not detect petroleum hydrocarbons above the method detection level (MDL) in the monitoring or water supply well samples. Laboratory analytical report forms (Certificate of Analysis) are attached in Appendix A. MADEP analytical results are summarized on Table 2.

2.0 LOCAL AREA WATER SUPPLY

A municipal water line is located along Mountain Island Highway. The line originates at the Mount Holly water treatment plant located northeast of the site. The line runs south from the treatment plant to the town of Mount Holly. The NCDFR site and properties located within the 1,500 foot radius south of the site along Mountain Island Highway are connected to the line. The municipal water intake is located upstream of the estimated point of groundwater discharge.

The municipal water line is not present on Flat Rock Cemetery Road that is located north of the site. In addition, the water line does not supply water to a portion of the residences that are located north of the site on Mountain Island Highway. The following is a summary of the results of a water supply well survey that was conducted in 2003 and 2004.

- Non-active water supply wells present within 1,000 feet of the source area: WSW-1, WSW-3, WSW-8.
- Active water supply wells present within 1,000 feet of the source area: WSW-2, WSW-4, WSW-5, WSW-6, WSW-7, WSW-9.

Water supply well locations are shown on Figure 2. The property addresses, well status and well owners are listed on Table 3.



3.0 PROXIMITY OF PLUME TO THE CLOSEST POTENTIAL RECEPTORS

The closest in-use water supply well is WSW-2 which is located approximately 400 feet northwest of the source area. The remainder of the water supply wells are located either north or west of the source area. Historically, groundwater flow at the site was oriented to the east and away from the water supply wells. It appears that groundwater from the site discharges to the Catawba River located east of the site. The groundwater flow direction on the sampling date indicates a groundwater divide is present on the property with groundwater flow oriented towards the northeast and southwest.

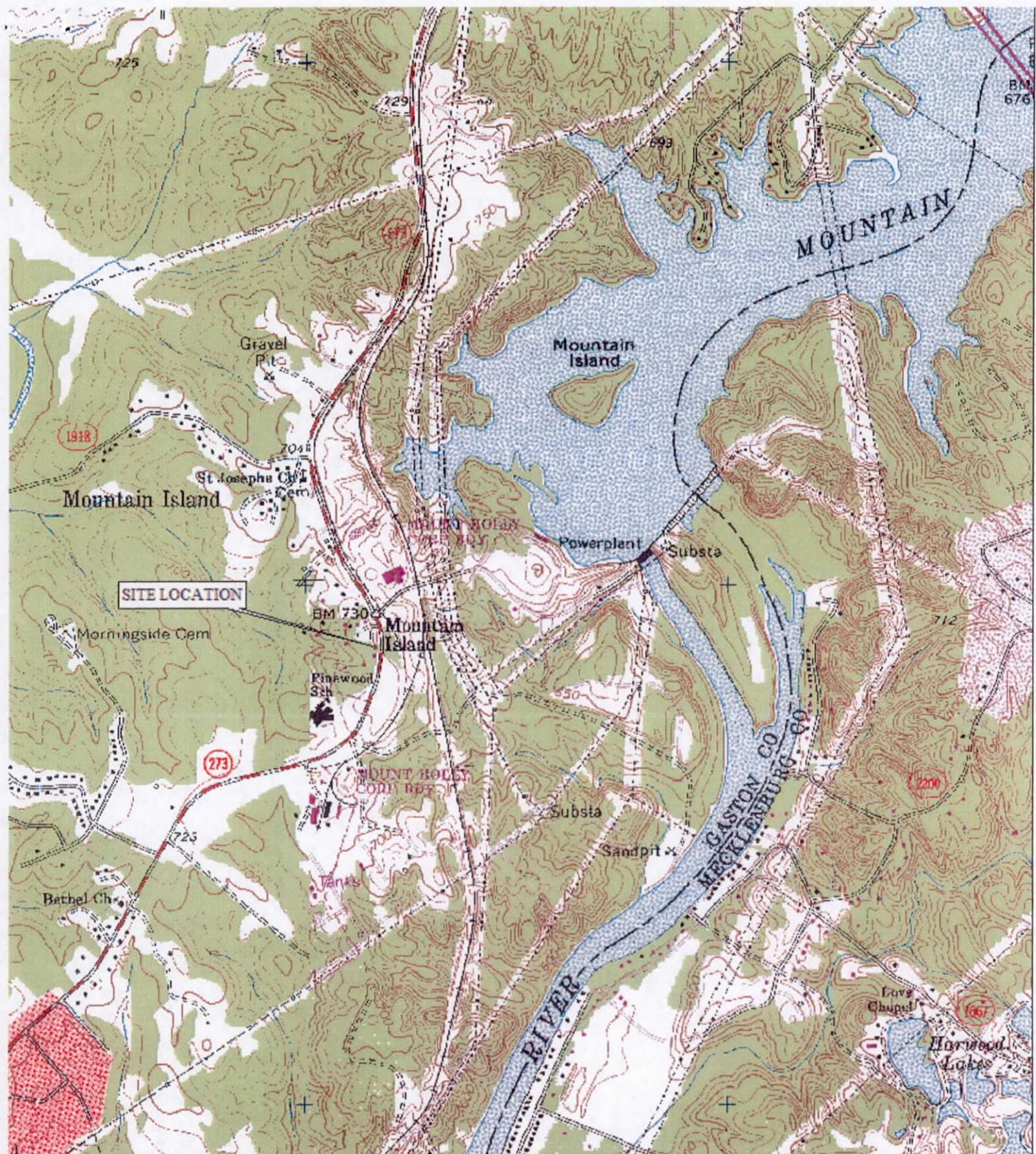
4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on the results of site activities performed during June 2008:

- Semi-volatile compounds were not detected in the groundwater samples collected from the monitoring wells or water supply wells by EPA Method 8270.
- Petroleum hydrocarbons were not detected by MADEP EPH analysis in the monitoring or water supply well samples.
- The next sampling event is scheduled for December 2008.



FIGURES



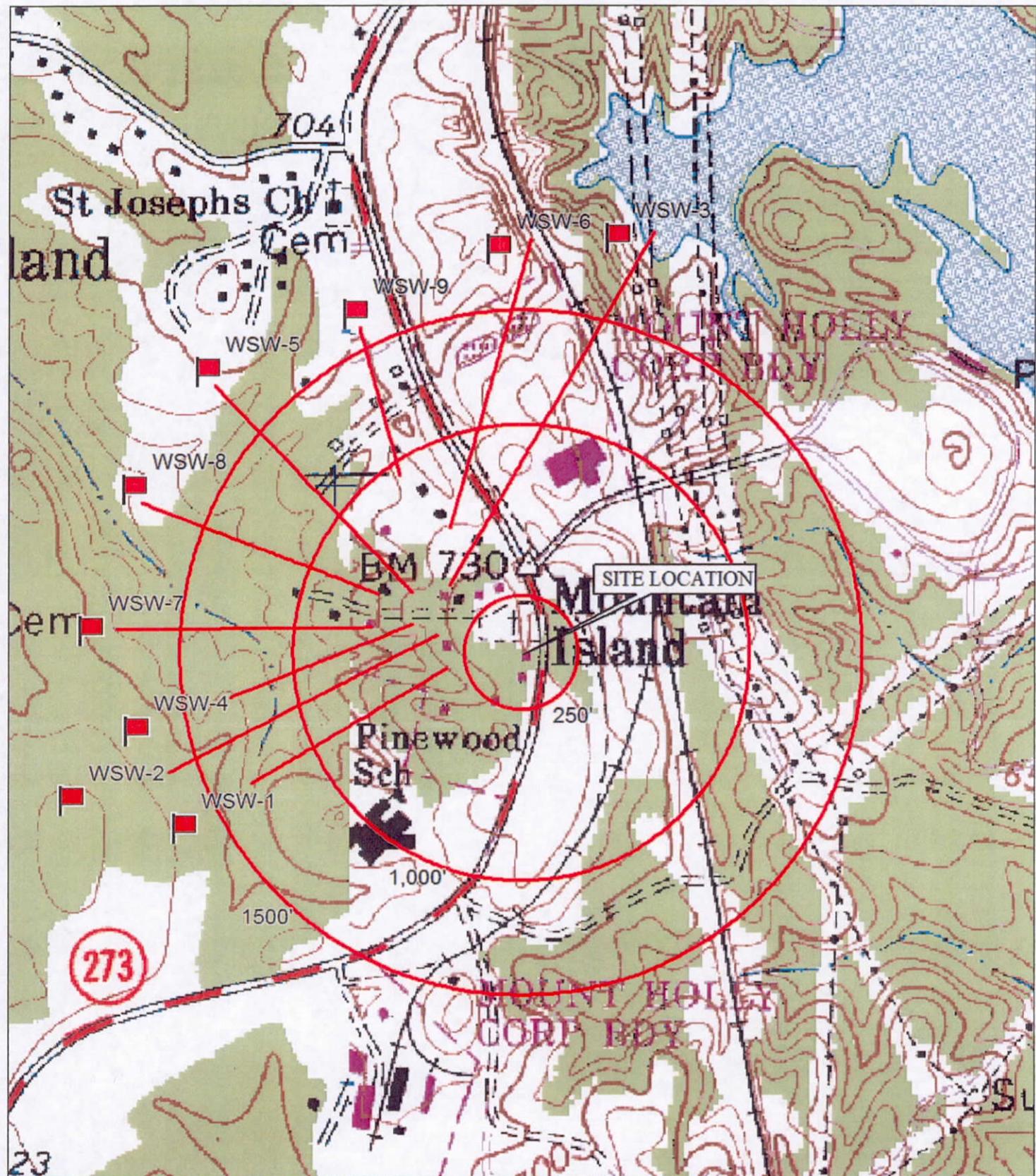
SITE LOCATION MAP

N ↑



FROEHLING & ROBERTSON, INC.
GEOTECHNICAL • ENVIRONMENTAL • MATERIALS
ENGINEERING • LABORATORIES
“OVER ONE HUNDRED YEARS OF SERVICE”

Client:	NCDFR		
Project:	District 12 Headquarters		
Location:	Mt. Holly, North Carolina		
F&R Project No.:	D66-130		
Source:	USGS Mt. Holly Topo. Map (1993)		
Date: July 2008	Approximate Scale: 1"=1,500'		Figure No.: 1



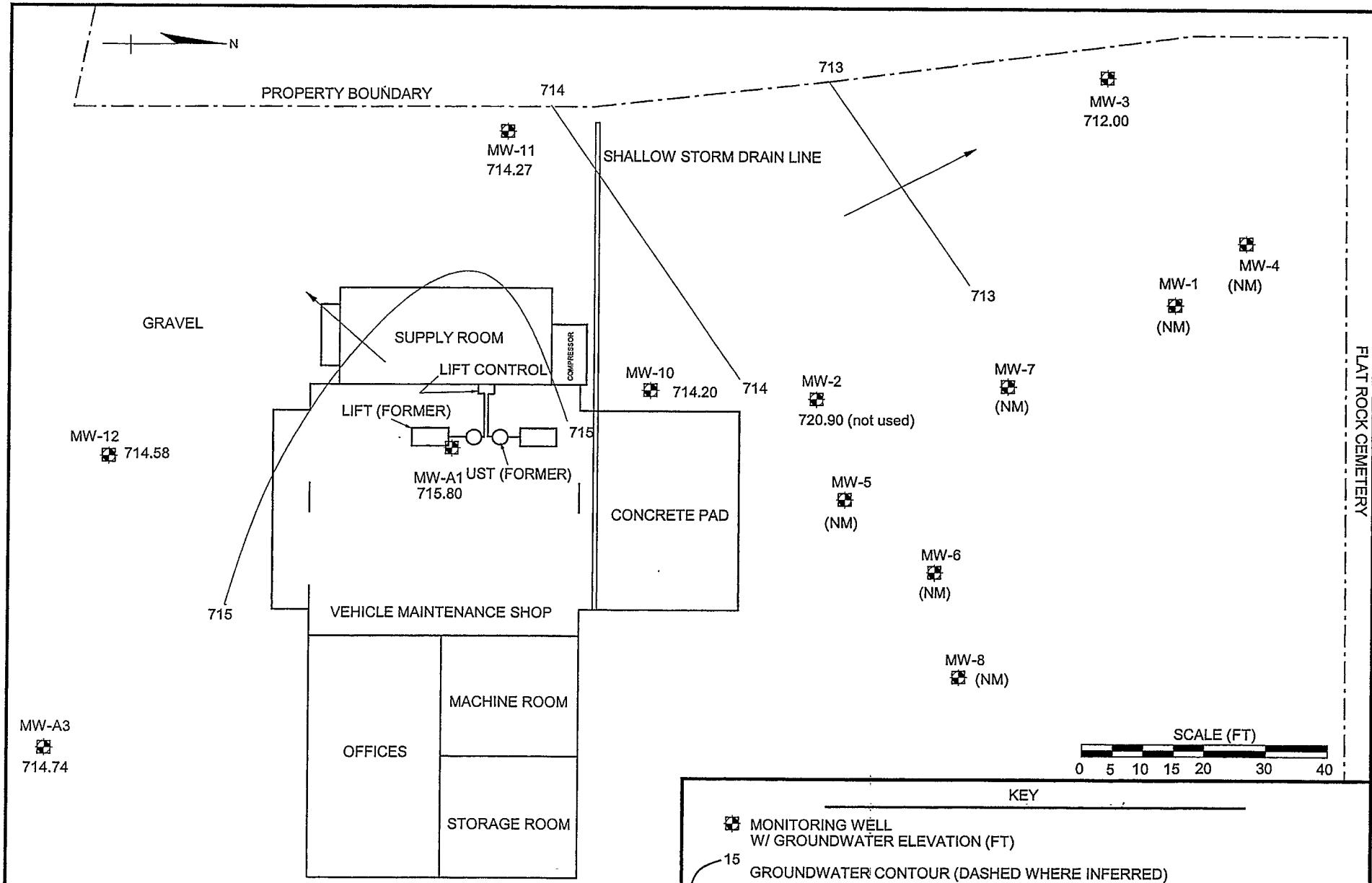
WATER SUPPLY WELL LOCATION MAP

N ↑



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GEOTECHNICAL • ENVIRONMENTAL • MATERIALS
ENGINEERING • LABORATORIES
“OVER ONE HUNDRED YEARS OF SERVICE”

Client:	NCDFR		
Project:	District 12 Headquarters		
Location:	Mt. Holly, North Carolina		
F&R Project No.:	D66-130		
Source:	USGS Mt. Holly Topo. Map (1993)		
Date: July 2008	Approximate Scale: 1"=600'		Figure No.: 2



SINCE  FROEHLING & ROBERTSON, INC. GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES <i>"OVER ONE HUNDRED YEARS OF SERVICE"</i> 310 Hubert Street, Raleigh, North Carolina 27603 (919) 828-3441; Fax: (919) 828-5751	GROUNDWATER SURFACE-SEPTEMBER 1, 2005	
	CLIENT: NC DIVISION OF FOREST RESOURCES	SCALE: AS SHOWN
	PROJECT: DISTRICT 12 HEADQUARTERS, MT. HOLLY, NC	DATE: 6/08
	PROJECT NO: D66-130E	FIGURE NO: 3



TABLES

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-1	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	1/29/94	13.00	714.68
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	10/11/94	13.22	714.46
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	3/2/95	12.79	714.89
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	6/7/95	10.38	717.30
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	10/18/95	12.42	715.26
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	12/27/95	8.84	718.84
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	3/14/96	5.97	721.71
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	7/2/96	11.12	716.56
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	9/17/96	11.44	716.24
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	1/29/97	10.21	717.47
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	5/13/97	7.60	720.08
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	8/14/97	13.29	714.39
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	11/24/97	14.73	712.95
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	7/23/98	13.40	714.28
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	3/16/99	13.65	714.03
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	8/4/99	16.37	711.31
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	3/29/00	11.64	716.04
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	8/16/00	16.80	710.88
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	2/7/01	18.35	709.33
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	8/24/04	13.91	713.77
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	9/13/04	13.16	714.52
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	2/28/05	11.33	716.35
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	9/1/05	14.81	712.87
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	2/23/06	10.98	716.70
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	8/24/06	15.35	712.33
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	2/22/07	10.68	717.00
	1/28/94	14.5	14.5-24.5	24.5	727.92	727.68	9/7/07	15.94	711.74

TABLE 1
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NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-2	1/28/94	10	10-20	20	729.57	729.40	1/29/94	15.27	714.13
	1/28/94	10	10-20	20	729.57	729.40	10/11/94	15.23	714.17
	1/28/94	10	10-20	20	729.57	729.40	3/2/95	15.00	714.40
	1/28/94	10	10-20	20	729.57	729.40	6/7/95	12.70	716.70
	1/28/94	10	10-20	20	729.57	729.40	10/18/95	14.43	714.97
	1/28/94	10	10-20	20	729.57	729.40	12/27/95	11.21	718.19
	1/28/94	10	10-20	20	729.57	729.40	3/14/96	8.56	720.84
	1/28/94	10	10-20	20	729.57	729.40	7/2/96	13.32	716.08
	1/28/94	10	10-20	20	729.57	729.40	9/17/96	13.71	715.69
	1/28/94	10	10-20	20	729.57	729.40	1/29/97	12.80	716.60
	1/28/94	10	10-20	20	729.57	729.40	5/13/97	10.00	719.40
	1/28/94	10	10-20	20	729.57	729.40	8/14/97	15.29	714.11
	1/28/94	10	10-20	20	729.57	729.40	11/24/97	16.28	713.12
	1/28/94	10	10-20	20	729.57	729.40	7/23/98	15.35	714.05
	1/28/94	10	10-20	20	729.57	729.40	2/7/01	20.64	708.76
	1/28/94	10	10-20	20	729.57	729.40	8/24/04	15.65	713.75
	1/28/94	10	10-20	20	729.57	729.40	9/13/04	15.06	714.34
	1/28/94	10	10-20	20	729.57	729.40	2/28/05	13.64	715.76
	1/28/94	10	10-20	20	729.57	729.40	9/1/05	16.60	712.80
	1/28/94	10	10-20	20	729.57	729.40	2/23/06	13.55	715.85
	1/28/94	10	10-20	20	729.57	729.40	8/24/06	17.26	712.14
	1/28/94	10	10-20	20	729.57	729.40	2/22/07	13.22	716.18
	1/28/94	10	10-20	20	729.57	729.40	9/7/07	17.73	711.67
	1/28/94	10	10-20	20	729.57	729.40	6/3/08	8.50	720.90

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NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-3	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	1/29/94	12.50	714.89
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	10/11/94	12.65	714.74
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	3/2/95	12.06	715.33
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	6/7/95	10.28	717.11
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	10/18/95	11.85	715.54
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	12/27/95	8.24	719.15
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	3/14/96	5.19	722.20
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	7/2/96	10.74	716.65
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	9/17/96	11.25	716.14
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	1/29/97	9.78	717.61
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	5/13/97	6.71	720.68
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	8/14/97	12.92	714.47
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	11/24/97	14.26	713.13
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	7/23/98	12.98	714.41
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	3/16/99	13.09	714.30
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	8/4/99	15.83	711.56
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	3/29/00	10.14	717.25
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	8/16/00	16.18	711.21
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	2/7/01	17.67	709.72
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	8/24/04	13.56	713.83
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	9/13/04	13.06	714.33
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	2/28/05	10.94	716.45
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	9/1/05	14.26	713.13
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	2/23/06	9.97	717.42
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	8/24/06	14.86	712.53
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	2/22/07	9.69	717.70
	2/10/94	9.5	9.5-19.5	19.5	727.6	727.39	9/7/07	15.39	712.00

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-4	6/9/94	10	10-20	20	728.46	728.23	10/11/94	13.32	714.91
	6/9/94	10	10-20	20	728.46	728.23	3/2/95	13.65	714.58
	6/9/94	10	10-20	20	728.46	728.23	6/7/95	10.94	717.29
	6/9/94	10	10-20	20	728.46	728.23	10/18/95	12.52	715.71
	6/9/94	10	10-20	20	728.46	728.23	12/27/95	8.05	720.18
	6/9/94	10	10-20	20	728.46	728.23	3/14/96	5.91	722.32
	6/9/94	10	10-20	20	728.46	728.23	7/2/96	11.51	716.72
	6/9/94	10	10-20	20	728.46	728.23	9/17/96	11.99	716.24
	6/9/94	10	10-20	20	728.46	728.23	1/29/97	10.45	717.78
	6/9/94	10	10-20	20	728.46	728.23	5/13/97	7.75	720.48
	6/9/94	10	10-20	20	728.46	728.23	8/14/97	13.68	714.55
	6/9/94	10	10-20	20	728.46	728.23	11/24/97	14.80	713.43
	6/9/94	10	10-20	20	728.46	728.23	7/23/98	13.74	714.49
	6/9/94	10	10-20	20	728.46	728.23	3/16/99	13.84	714.39
	6/9/94	10	10-20	20	728.46	728.23	8/4/99	16.60	711.63
	6/9/94	10	10-20	20	728.46	728.23	3/29/00	10.98	717.25
	6/9/94	10	10-20	20	728.46	728.23	8/16/00	17.03	711.20
	6/9/94	10	10-20	20	728.46	728.23	2/7/01	17.57	710.66
	6/9/94	10	10-20	20	728.46	728.23	8/24/04	13.33	714.90
	6/9/94	10	10-20	20	728.46	728.23	9/13/04	13.74	714.49
	6/9/94	10	10-20	20	728.46	728.23	2/28/05	11.63	716.60
	6/9/94	10	10-20	20	728.46	728.23	9/1/05	15.25	712.98
	6/9/94	10	10-20	20	728.46	728.23	2/23/06	10.84	717.39
	6/9/94	10	10-20	20	728.46	728.23	8/24/06	15.76	712.47
	6/9/94	10	10-20	20	728.46	728.23	2/22/07	10.66	717.57
	6/9/94	10	10-20	20	728.46	728.23	9/7/07	16.36	711.87

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MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
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Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-5	6/9/94	10	10-20	20	729.46	729.23	10/11/94	15.60	713.63
	6/9/94	10	10-20	20	729.46	729.23	3/2/95	15.02	714.21
	6/9/94	10	10-20	20	729.46	729.23	6/7/95	13.18	716.05
	6/9/94	10	10-20	20	729.46	729.23	10/18/95	14.80	714.43
	6/9/94	10	10-20	20	729.46	729.23	12/27/95	11.33	717.90
	6/9/94	10	10-20	20	729.46	729.23	3/14/96	8.92	720.31
	6/9/94	10	10-20	20	729.46	729.23	7/2/96	13.48	715.75
	6/9/94	10	10-20	20	729.46	729.23	9/17/96	14.88	714.35
	6/9/94	10	10-20	20	729.46	729.23	1/29/97	13.01	716.22
	6/9/94	10	10-20	20	729.46	729.23	5/13/97	10.15	719.08
	6/9/94	10	10-20	20	729.46	729.23	8/14/97	15.42	713.81
	6/9/94	10	10-20	20	729.46	729.23	11/24/97	16.72	712.51
	6/9/94	10	10-20	20	729.46	729.23	7/23/98	15.45	713.78
	6/9/94	10	10-20	20	729.46	729.23	3/16/99	16.55	712.68
	6/9/94	10	10-20	20	729.46	729.23	8/16/00	19.12	710.11
	6/9/94	10	10-20	20	729.46	729.23	8/24/04	15.79	713.44
	6/9/94	10	10-20	20	729.46	729.23	9/13/04	15.40	713.83
	6/9/94	10	10-20	20	729.46	729.23	2/28/05	13.85	715.38
	6/9/94	10	10-20	20	729.46	729.23	9/1/05	16.69	712.54
	6/9/94	10	10-20	20	729.46	729.23	2/23/06	13.76	715.47
	6/9/94	10	10-20	20	729.46	729.23	8/24/06	17.60	711.63
	6/9/94	10	10-20	20	729.46	729.23	2/22/07	13.52	715.71
	6/9/94	10	10-20	20	729.46	729.23	9/7/07	17.84	711.39

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-6 (Deep)	6/27/04	37	37-42	42	729.28	728.82	3/2/95	13.93	714.89
	6/27/04	37	37-42	42	729.28	728.82	6/7/95	11.20	717.62
	6/27/04	37	37-42	42	729.28	728.82	10/18/95	13.55	715.27
	6/27/04	37	37-42	42	729.28	728.82	12/27/95	10.33	718.49
	6/27/04	37	37-42	42	729.28	728.82	3/14/96	7.91	720.91
	6/27/04	37	37-42	42	729.28	728.82	7/2/96	12.36	716.46
	6/27/04	37	37-42	42	729.28	728.82	9/17/96	12.61	716.21
	6/27/04	37	37-42	42	729.28	728.82	1/29/97	11.62	717.20
	6/27/04	37	37-42	42	729.28	728.82	5/13/97	9.24	719.58
	6/27/04	37	37-42	42	729.28	728.82	8/14/97	14.32	714.50
	6/27/04	37	37-42	42	729.28	728.82	11/24/97	14.87	713.95
	6/27/04	37	37-42	42	729.28	728.82	7/23/98	14.38	714.44
	6/27/04	37	37-42	42	729.28	728.82	8/24/04	13.55	715.27
	6/27/04	37	37-42	42	729.28	728.82	9/13/04	12.90	715.92
	6/27/04	37	37-42	42	729.28	728.82	2/28/05	12.39	716.43
	6/27/04	37	37-42	42	729.28	728.82	2/23/06	11.91	716.91
	6/27/04	37	37-42	42	729.28	728.82	8/24/06	14.95	713.87
	6/27/04	37	37-42	42	729.28	728.82	2/22/07	11.90	716.92
	6/27/04	37	37-42	42	729.28	728.82	9/7/07	16.27	712.55

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-7 (Deep)	-	37	37-42	42	729.11	728.77	6/7/95	14.20	714.57
	-	37	37-42	42	729.11	728.77	10/18/95	13.86	714.91
	-	37	37-42	42	729.11	728.77	12/27/95	10.08	718.69
	-	37	37-42	42	729.11	728.77	3/14/96	7.28	721.49
	-	37	37-42	42	729.11	728.77	7/2/96	12.37	716.40
	-	37	37-42	42	729.11	728.77	9/17/96	12.69	716.08
	-	37	37-42	42	729.11	728.77	1/29/97	11.40	717.37
	-	37	37-42	42	729.11	728.77	5/13/97	8.85	719.92
	-	37	37-42	42	729.11	728.77	8/14/97	14.48	714.29
	-	37	37-42	42	729.11	728.77	11/24/97	15.18	713.59
	-	37	37-42	42	729.11	728.77	7/23/98	14.55	714.22
	-	37	37-42	42	729.11	728.77	3/16/99	14.84	713.93
	-	37	37-42	42	729.11	728.77	3/29/00	13.12	715.65
	-	37	37-42	42	729.11	728.77	8/24/04	15.02	713.75
	-	37	37-42	42	729.11	728.77	9/13/04	14.24	714.53
	-	37	37-42	42	729.11	728.77	2/28/05	12.42	716.35
	-	37	37-42	42	729.11	728.77	9/1/05	15.95	712.82
	-	37	37-42	42	729.11	728.77	2/23/06	12.33	716.44
	-	37	37-42	42	729.11	728.77	8/24/06	16.51	712.26
	-	37	37-42	42	729.11	728.77	2/22/07	11.97	716.80
	-	37	37-42	42	729.11	728.77	9/7/07	17.13	711.64

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-8	11/25/96	15	15-25	25	729.93	729.51	1/29/97	14.64	714.87
	11/25/96	15	15-25	25	729.93	729.51	5/13/97	12.30	717.21
	11/25/96	15	15-25	25	729.93	729.51	8/14/97	16.76	712.75
	11/25/96	15	15-25	25	729.93	729.51	11/24/97	18.03	711.48
	11/25/96	15	15-25	25	729.93	729.51	7/23/98	16.73	712.78
	11/25/96	15	15-25	25	729.93	729.51	3/16/99	17.73	711.78
	11/25/96	15	15-25	25	729.93	729.51	8/4/99	20.23	709.28
	11/25/96	15	15-25	25	729.93	729.51	3/29/00	18.10	711.41
	11/25/96	15	15-25	25	729.93	729.51	8/16/00	20.89	708.62
	11/25/96	15	15-25	25	729.93	729.51	8/24/04	12.46	717.05
	11/25/96	15	15-25	25	729.93	729.51	9/13/04	16.96	712.55
	11/25/96	15	15-25	25	729.93	729.51	2/28/05	15.10	714.41
	11/25/96	15	15-25	25	729.93	729.51	9/1/05	18.24	711.27
	11/25/96	15	15-25	25	729.93	729.51	2/23/06	15.85	713.66
MW-10	9/5/02	10	10-35	35	729.96	729.58	8/16/00	14.24	715.34
	9/5/02	10	10-35	35	729.96	729.58	9/13/04	13.57	716.01
	9/5/02	10	10-35	35	729.96	729.58	2/28/05	13.09	716.49
	9/5/02	10	10-35	35	729.96	729.58	9/1/05	15.69	713.89
MW-10	9/5/02	10	10-35	35	729.96	729.58	2/23/06	12.76	716.82
	9/5/02	10	10-35	35	729.96	729.58	8/24/06	15.68	713.90
	9/5/02	10	10-35	35	729.96	729.58	2/22/07	12.60	716.98
	9/5/02	10	10-35	35	729.96	729.58	9/7/07	17.03	712.55
	9/5/02	10	10-35	35	729.96	729.58	6/3/08	15.38	714.20

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-11	8/23/04	10	10-25	25	729.79	729.32	8/24/04	14.43	714.89
	8/23/04	10	10-25	25	729.79	729.32	9/13/04	13.80	715.52
	8/23/04	10	10-25	25	729.79	729.32	2/28/05	11.89	717.43
	8/23/04	10	10-25	25	729.79	729.32	9/1/05	16.48	712.84
	8/23/04	10	10-25	25	729.79	729.32	2/23/06	12.19	717.13
	8/23/04	10	10-25	25	729.79	729.32	8/24/06	12.19	717.13
	8/23/04	10	10-25	25	729.79	729.32	2/22/07	12.45	716.87
	8/23/04	10	10-25	25	729.79	729.32	9/7/07	17.68	711.64
	8/23/04	10	10-25	25	729.79	729.32	6/3/08	15.05	714.27
MW-12	8/23/04	10	10-25	25	729.89	729.49	8/24/04	14.35	715.14
	8/23/04	10	10-25	25	729.89	729.49	9/13/04	13.22	716.27
	8/23/04	10	10-25	25	729.89	729.49	2/28/05	13.06	716.43
	8/23/04	10	10-25	25	729.89	729.49	9/1/05	15.89	713.60
	8/23/04	10	10-25	25	729.89	729.49	2/23/06	12.34	717.15
	8/23/04	10	10-25	25	729.89	729.49	8/24/06	15.80	713.69
	8/23/04	10	10-25	25	729.89	729.49	2/22/07	13.27	716.22
	8/23/04	10	10-25	25	729.89	729.49	9/7/07	17.36	712.13
	8/23/04	10	10-25	25	729.89	729.49	6/3/08	14.91	714.58
MW-A1	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	8/24/04	13.74	716.11
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	9/13/04	12.12	717.73
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	2/28/05	13.31	716.54
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	9/1/05	14.76	715.09
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	2/23/06	12.12	717.73
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	8/24/06	14.31	715.54
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	2/22/07	12.49	717.36
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	9/7/07	16.41	713.44
	7/22/97	2.5	2.5-17.5	17.5	730.07	729.85	6/3/08	14.05	715.80

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
NCDFR DISTRICT 12 HEADQUARTERS
MOUNT HOLLY, NC
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well ID	Date Installed	Casing Depth	Screened Interval (BGS)	Bottom of Well (BGS)	Surface-Manhole Elevation	TOC Elevation	Date of Water Level Measurement	Depth to Water from TOC	Groundwater Elevation
MW-A3	7/30/97	10	10-25	25	730.20	729.65	8/24/04	19.75	709.90
	7/30/97	10	10-25	25	730.20	729.65	9/13/04	18.30	711.35
	7/30/97	10	10-25	25	730.20	729.65	2/28/05	17.94	711.71
	7/30/97	10	10-25	25	730.20	729.65	9/1/05	19.54	710.11
	7/30/97	10	10-25	25	730.20	729.65	2/23/06	18.23	711.42
	7/30/97	10	10-25	25	730.20	729.65	8/24/06	18.23	711.42
	7/30/97	10	10-25	25	730.20	729.65	2/22/07	19.36	710.29
	7/30/97	10	10-25	25	730.20	729.65	9/7/07	20.55	709.10
	7/30/97	10	10-25	25	730.20	729.65	6/3/08	14.91	714.74

Notes:

All measurements in feet.

Measurements Referenced To Finished Floor of DFR Maintenance Shop with an elevation of 730 feet.

TOC denotes Top of Casing.

BGS denotes below ground surface.

NM Denotes not measured.

TABLE 2
SUMMARY OF MADEP EPH GROUNDWATER ANALYTICAL RESULTS
NCDENR-DIVISION OF FOREST RESOURCES
DISTRICT 12 HEADQUARTERS, GASTON COUNTY, NORTH CAROLINA
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807
 Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Monitoring Well	Date Sampled	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
MW-A1	5/20/04	<100	<100	<100
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	125
	8/24/06	<100	<100	<100
	2/22/07	<50	58	60
	9/7/07	NS	NS	NS
	6/3/08	<118	<118	<118
MW-A3	5/20/04	<100	<100	141
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
	9/7/07	<125	<125	<125
	6/3/08	<111	<111	<111
MW-2	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	120	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
	9/7/07	<111	<111	<111
	6/3/08	NS	NS	NS
MW-10	9/6/02	<100	<100	<100
	5/20/04	<100	<100	264
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	110
	8/24/06	174	<100	<100
	2/22/07	<50	<30	80
	9/7/07	<112	<112	<112
	6/3/08	<118	<118	<118
NC 2L		4,200	42,000	210

TABLE 2
SUMMARY OF MADEP EPH GROUNDWATER ANALYTICAL RESULTS
NCDENR-DIVISION OF FOREST RESOURCES
DISTRICT 12 HEADQUARTERS, GASTON COUNTY, NORTH CAROLINA
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807
 Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Monitoring Well	Date Sampled	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
MW-11	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
	9/7/07	<125	<125	<125
MW-12	6/3/08	<118	<118	<118
	8/24/04	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
	9/7/07	<118	<118	<118
WSW-2	6/3/08	<116	<116	<116
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
WSW-4 (Duplicate)	9/7/07	<100	<100	<100
	6/3/08	<111	<111	<111
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	9/1/05	<100	<100	<100
	9/1/05	<100	<100	<100
	2/23/06	<100	<100	<100
NC 2L		4,200	42,000	210

TABLE 2
SUMMARY OF MADEP EPH GROUNDWATER ANALYTICAL RESULTS
NCDENR-DIVISION OF FOREST RESOURCES
DISTRICT 12 HEADQUARTERS, GASTON COUNTY, NORTH CAROLINA
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807
 Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Monitoring Well	Date Sampled	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
WSW-5 (Duplicate)	5/20/04	<100	<100	<100
	5/20/04	<100	<100	<100
	8/24/04	<100	<100	<100
	2/28/05	<100	<100	<100
	2/23/06	<100	<100	<100
	8/24/06	<100	<100	<100
	2/22/07	<50	<30	<8
	9/7/07	<101	<101	<101
	6/3/08	<111	<111	<111
NC 2L		4,200	42,000	210

NOTE:

Analytical results reported in ug/L.

NC 2L denotes NC 2L groundwater standard.

Concentrations exceeding NC 2L groundwater standards in bold.

<100 denotes not detected above analytical detection limit of 100 ug/L.

NS denotes Not Sampled

TABLE 3
SUMMARY OF WATER SUPPLY WELLS
NCDENR-DIVISION OF FOREST RESOURCES
DISTRICT 12 HEADQUARTERS, GASTON COUNTY, NORTH CAROLINA
F&R PROJECT NO. D66-130E

Facility ID No: 0-021807

Incident No./Name: 20181/NC Forest Service-Hydraulic Lifts

Well I.D.	Owner Name & Address	Property Identification No.	Well Location	Well Use	Approximate Distance from UST System (ft.)
WSW-1	Michael & Mary Cox P.O. Box 383, Mt. Holly, NC 28120	177751	511 Flat Rock Cemetery Rd.	Not in Use	350
WSW-2	Michael & Mary Cox P.O. Box 383, Mt. Holly, NC 28120	177751	511 Flat Rock Cemetery Rd.	Potable use	400
WSW-3	David & Joey Gibson P.O. Box 764, Mt. Holly, NC 28120	177750	512 Flat Rock Cemetery Rd.	Not used	420
WSW-4	Michael & Mary Cox P.O. Box 383, Mt. Holly, NC 28120	177752	517 Flat Rock Cemetery Rd.	Potable use	450
WSW-5	David L. Gibson P.O. Box 764, Mt. Holly, NC 28120	177753	516 Flat Rock Cemetery Rd.	Potable use	450
WSW-6	Thomas & Mary Martin 4218 Hickory Grove Rd., Mt. Holly, NC 28120	177749	2015 Mountain Island Hwy.	Potable use	600
WSW-7	Betty Blue Sifford Clark c/o Sifford Randolph, 621 Reeves Ct., Charlotte, NC 28208	177745	529 Flat Rock Cemetery Rd.	Potable use	650
WSW-8	Reta Rena S. Tidwell & Others c/o Betty Clark, 3511 Firestone Dr., Charlotte, NC 28216	177744	530 Flat Rock Cemetery Rd.	Other than drinking	650
WSW-9	Margaret A. Hank 2023 Mountain Island Hwy, Mt. Holly, NC 28120	177749	2023 Mountain Island Hwy.	Potable use	900

Property ownership information obtained from the Gaston County Geographical Information System (GIS) on 12/9/03.

Water well survey was performed on 3/17/99 for DFR groundwater incident 11184.

Distances from source area are estimates and were based on U.S.G.S. Mountain Island Lake 7.5 minute quadrangle map.



APPENDIX A
LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY
DOCUMENTATION

June 19, 2008

Mr. Michael Sabodish
Froehling & Robertson
310 Hubert St.
Raleigh, NC 27603

RE: Project: NC DFR MT. HOLLY D66-130E
Pace Project No.: 9220894

Dear Mr. Sabodish:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: NC DFR MT. HOLLY D66-130E
 Pace Project No.: 9220894

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
 Kansas Certification Number: E-10364
 Louisiana/LELAP Certification Number: 04034
 North Carolina Drinking Water Certification Number: 37706
 North Carolina Wastewater Certification Number: 12

North Carolina Field Services Certification Number: 5342
 South Carolina Certification Number: 990060001
 South Carolina Bioassay Certification Number: 990060003
 Tennessee Certification Number: 04010
 Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
 Louisiana/LELAP Certification Number: 03095
 New Jersey Certification Number: NC011
 North Carolina Drinking Water Certification Number: 37712
 North Carolina Wastewater Certification Number: 40
 North Carolina Bioassay Certification Number: 9

Pennsylvania Certification Number: 68-03578
 South Carolina Certification Number: 99030001
 South Carolina Bioassay Certification Number: 99030002
 Tennessee Certification Number: 2980
 Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
 Virginia Drinking Water Certification Number: 00424

North Carolina Wastewater Certification Number: 633

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: NC DFR MT. HOLLY D66-130E
 Pace Project No.: 9220894

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9220894001	MW-A1	Water	06/03/08 14:15	06/05/08 12:58
9220894002	MW-A3	Water	06/03/08 14:45	06/05/08 12:58
9220894003	MW-10	Water	06/03/08 13:15	06/05/08 12:58
9220894004	MW-11	Water	06/03/08 13:30	06/05/08 12:58
9220894005	MW-12	Water	06/03/08 15:00	06/05/08 12:58
9220894006	WSW-2	Water	06/03/08 15:20	06/05/08 12:58
9220894007	WSW-4	Water	06/03/08 15:40	06/05/08 12:58
9220894008	WSW-5	Water	06/03/08 16:00	06/05/08 12:58

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SAMPLE ANALYTE COUNT

Project: NC DFR MT. HOLLY D66-130E
 Pace Project No.: 9220894

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9220894001	MW-A1	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894002	MW-A3	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894003	MW-10	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894004	MW-11	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894005	MW-12	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894006	WSW-2	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894007	WSW-4	EPA 8270	BET	75
		MADEP EPH	JAD	7
9220894008	WSW-5	EPA 8270	BET	75
		MADEP EPH	JAD	7

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

Sample: MW-12	Lab ID: 9220894005	Collected: 06/03/08 15:00	Received: 06/05/08 12:58	Matrix: Water			
Parameters	Results	Units	Report				
			Limit	MDL	DF	Prepared	Analyzed
CAS No.	Qual						

8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510
Di-n-octylphthalate	ND ug/L
1,2-Diphenylhydrazine	ND ug/L
bis(2-Ethylhexyl)phthalate	ND ug/L
Fluoranthene	ND ug/L
Fluorene	ND ug/L
Hexachloro-1,3-butadiene	ND ug/L
Hexachlorobenzene	ND ug/L
Hexachlorocyclopentadiene	ND ug/L
Hexachloroethane	ND ug/L
Indeno(1,2,3-cd)pyrene	ND ug/L
Isophorone	ND ug/L
1-Methylnaphthalene	ND ug/L
2-Methylnaphthalene	ND ug/L
2-Methylphenol(o-Cresol)	ND ug/L
3&4-Methylphenol(m&p Cresol)	ND ug/L
Naphthalene	ND ug/L
2-Nitroaniline	ND ug/L
3-Nitroaniline	ND ug/L
4-Nitroaniline	ND ug/L
Nitrobenzene	ND ug/L
2-Nitrophenol	ND ug/L
4-Nitrophenol	ND ug/L
N-Nitrosodimethylamine	ND ug/L
N-Nitroso-di-n-propylamine	ND ug/L
N-Nitrosodiphenylamine	ND ug/L
Pentachlorophenol	ND ug/L
Phenanthrene	ND ug/L
Phenol	ND ug/L
Pyrene	ND ug/L
1,2,4-Trichlorobenzene	ND ug/L
2,4,5-Trichlorophenol	ND ug/L
2,4,6-Trichlorophenol	ND ug/L
Nitrobenzene-d5 (S)	63 %
2-Fluorobiphenyl (S)	66 %
Terphenyl-d14 (S)	75 %
Phenol-d6 (S)	27 %
2-Fluorophenol (S)	38 %
2,4,6-Tribromophenol (S)	67 %
	30-150
	30-150
	30-150
	25-150
	25-150
	25-150

ANALYTICAL RESULTS

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

Sample: WSW-2	Lab ID: 9220894006	Collected: 06/03/08 15:20	Received: 06/05/08 12:58	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Di-n-octylphthalate	ND ug/L		11.4	3.3	1	06/10/08 08:03	06/17/08 16:04	117-84-0	
1,2-Diphenylhydrazine	ND ug/L		11.4	2.5	1	06/10/08 08:03	06/17/08 16:04	122-66-7	
bis(2-Ethylhexyl)phthalate	ND ug/L		11.4	2.4	1	06/10/08 08:03	06/17/08 16:04	117-81-7	
Fluoranthene	ND ug/L		11.4	3.3	1	06/10/08 08:03	06/17/08 16:04	206-44-0	
Fluorene	ND ug/L		11.4	3.0	1	06/10/08 08:03	06/17/08 16:04	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		11.4	3.8	1	06/10/08 08:03	06/17/08 16:04	87-68-3	
Hexachlorobenzene	ND ug/L		11.4	3.0	1	06/10/08 08:03	06/17/08 16:04	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		11.4	4.2	1	06/10/08 08:03	06/17/08 16:04	77-47-4	
Hexachloroethane	ND ug/L		11.4	3.8	1	06/10/08 08:03	06/17/08 16:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		11.4	3.4	1	06/10/08 08:03	06/17/08 16:04	193-39-5	
Isophorone	ND ug/L		11.4	7.4	1	06/10/08 08:03	06/17/08 16:04	78-59-1	
1-Methylnaphthalene	ND ug/L		11.4	4.1	1	06/10/08 08:03	06/17/08 16:04	90-12-0	
2-Methylnaphthalene	ND ug/L		11.4	3.9	1	06/10/08 08:03	06/17/08 16:04	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L		11.4	4.2	1	06/10/08 08:03	06/17/08 16:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		11.4	3.4	1	06/10/08 08:03	06/17/08 16:04		
Naphthalene	ND ug/L		11.4	4.3	1	06/10/08 08:03	06/17/08 16:04	91-20-3	
2-Nitroaniline	ND ug/L		56.8	3.1	1	06/10/08 08:03	06/17/08 16:04	88-74-4	
3-Nitroaniline	ND ug/L		56.8	3.4	1	06/10/08 08:03	06/17/08 16:04	99-09-2	
4-Nitroaniline	ND ug/L		56.8	4.5	1	06/10/08 08:03	06/17/08 16:04	100-01-6	
Nitrobenzene	ND ug/L		11.4	5.0	1	06/10/08 08:03	06/17/08 16:04	98-95-3	
2-Nitrophenol	ND ug/L		11.4	5.2	1	06/10/08 08:03	06/17/08 16:04	88-75-5	
4-Nitrophenol	ND ug/L		56.8	2.0	1	06/10/08 08:03	06/17/08 16:04	100-02-7	
N-Nitrosodimethylamine	ND ug/L		11.4	3.5	1	06/10/08 08:03	06/17/08 16:04	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		11.4	4.2	1	06/10/08 08:03	06/17/08 16:04	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		11.4	7.5	1	06/10/08 08:03	06/17/08 16:04	86-30-6	
Pentachlorophenol	ND ug/L		56.8	1.8	1	06/10/08 08:03	06/17/08 16:04	87-86-5	
Phenanthren	ND ug/L		11.4	3.1	1	06/10/08 08:03	06/17/08 16:04	85-01-8	
Phenol	ND ug/L		11.4	2.0	1	06/10/08 08:03	06/17/08 16:04	108-95-2	
Pyrene	ND ug/L		11.4	3.3	1	06/10/08 08:03	06/17/08 16:04	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		11.4	3.9	1	06/10/08 08:03	06/17/08 16:04	120-82-1	
2,4,5-Trichlorophenol	ND ug/L		11.4	6.4	1	06/10/08 08:03	06/17/08 16:04	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		11.4	6.9	1	06/10/08 08:03	06/17/08 16:04	88-06-2	
Nitrobenzene-d5 (S)	84 %	30-150			1	06/10/08 08:03	06/17/08 16:04	4165-60-0	
2-Fluorobiphenyl (S)	87 %	30-150			1	06/10/08 08:03	06/17/08 16:04	321-60-8	
Terphenyl-d14 (S)	90 %	30-150			1	06/10/08 08:03	06/17/08 16:04	1718-51-0	
Phenol-d6 (S)	39 %	25-150			1	06/10/08 08:03	06/17/08 16:04	13127-88-3	
2-Fluorophenol (S)	52 %	25-150			1	06/10/08 08:03	06/17/08 16:04	367-12-4	
2,4,6-Tribromophenol (S)	87 %	25-150			1	06/10/08 08:03	06/17/08 16:04	118-79-6	

Date: 06/19/2008 11:22 AM

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ANALYTICAL RESULTS

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

Sample: WSW-4	Lab ID: 9220894007	Collected: 06/03/08 15:40	Received: 06/05/08 12:58	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-octylphthalate	ND ug/L	ug/L	10.0	2.9	1	06/10/08 08:03	06/17/08 16:26	117-84-0	
1,2-Diphenylhydrazine	ND ug/L	ug/L	10.0	2.2	1	06/10/08 08:03	06/17/08 16:26	122-66-7	
bis(2-Ethylhexyl)phthalate	ND ug/L	ug/L	10.0	2.1	1	06/10/08 08:03	06/17/08 16:26	117-81-7	
Fluoranthene	ND ug/L	ug/L	10.0	2.9	1	06/10/08 08:03	06/17/08 16:26	206-44-0	
Fluorene	ND ug/L	ug/L	10.0	2.6	1	06/10/08 08:03	06/17/08 16:26	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L	ug/L	10.0	3.3	1	06/10/08 08:03	06/17/08 16:26	87-68-3	
Hexachlorobenzene	ND ug/L	ug/L	10.0	2.6	1	06/10/08 08:03	06/17/08 16:26	118-74-1	
Hexachlorocyclopentadiene	ND ug/L	ug/L	10.0	3.7	1	06/10/08 08:03	06/17/08 16:26	77-47-4	
Hexachloroethane	ND ug/L	ug/L	10.0	3.3	1	06/10/08 08:03	06/17/08 16:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L	ug/L	10.0	3.0	1	06/10/08 08:03	06/17/08 16:26	193-39-5	
Isophorone	ND ug/L	ug/L	10.0	6.5	1	06/10/08 08:03	06/17/08 16:26	78-59-1	
1-Methylnaphthalene	ND ug/L	ug/L	10.0	3.6	1	06/10/08 08:03	06/17/08 16:26	90-12-0	
2-Methylnaphthalene	ND ug/L	ug/L	10.0	3.4	1	06/10/08 08:03	06/17/08 16:26	91-57-6	
2-Methylphenol(o-Cresol)	ND ug/L	ug/L	10.0	3.7	1	06/10/08 08:03	06/17/08 16:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L	ug/L	10.0	3.0	1	06/10/08 08:03	06/17/08 16:26		
Naphthalene	ND ug/L	ug/L	10.0	3.8	1	06/10/08 08:03	06/17/08 16:26	91-20-3	
2-Nitroaniline	ND ug/L	ug/L	50.0	2.7	1	06/10/08 08:03	06/17/08 16:26	88-74-4	
3-Nitroaniline	ND ug/L	ug/L	50.0	3.0	1	06/10/08 08:03	06/17/08 16:26	99-09-2	
4-Nitroaniline	ND ug/L	ug/L	50.0	4.0	1	06/10/08 08:03	06/17/08 16:26	100-01-6	
Nitrobenzene	ND ug/L	ug/L	10.0	4.4	1	06/10/08 08:03	06/17/08 16:26	98-95-3	
2-Nitrophenol	ND ug/L	ug/L	10.0	4.6	1	06/10/08 08:03	06/17/08 16:26	88-75-5	
4-Nitrophenol	ND ug/L	ug/L	50.0	1.8	1	06/10/08 08:03	06/17/08 16:26	100-02-7	
N-Nitrosodimethylamine	ND ug/L	ug/L	10.0	3.1	1	06/10/08 08:03	06/17/08 16:26	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L	ug/L	10.0	3.7	1	06/10/08 08:03	06/17/08 16:26	621-64-7	
N-Nitrosodiphenylamine	ND ug/L	ug/L	10.0	6.6	1	06/10/08 08:03	06/17/08 16:26	86-30-6	
Pentachlorophenol	ND ug/L	ug/L	50.0	1.6	1	06/10/08 08:03	06/17/08 16:26	87-86-5	
Phenanthrene	ND ug/L	ug/L	10.0	2.7	1	06/10/08 08:03	06/17/08 16:26	85-01-8	
Phenol	ND ug/L	ug/L	10.0	1.8	1	06/10/08 08:03	06/17/08 16:26	108-95-2	
Pyrene	ND ug/L	ug/L	10.0	2.9	1	06/10/08 08:03	06/17/08 16:26	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L	ug/L	10.0	3.4	1	06/10/08 08:03	06/17/08 16:26	120-82-1	
2,4,5-Trichlorophenol	ND ug/L	ug/L	10.0	5.6	1	06/10/08 08:03	06/17/08 16:26	95-95-4	
2,4,6-Trichlorophenol	ND ug/L	ug/L	10.0	6.1	1	06/10/08 08:03	06/17/08 16:26	88-06-2	
Nitrobenzene-d5 (S)	61 %		30-150		1	06/10/08 08:03	06/17/08 16:26	4165-60-0	
2-Fluorobiphenyl (S)	60 %		30-150		1	06/10/08 08:03	06/17/08 16:26	321-60-8	
Terphenyl-d14 (S)	71 %		30-150		1	06/10/08 08:03	06/17/08 16:26	1718-51-0	
Phenol-d6 (S)	25 %		25-150		1	06/10/08 08:03	06/17/08 16:26	13127-88-3	
2-Fluorophenol (S)	36 %		25-150		1	06/10/08 08:03	06/17/08 16:26	367-12-4	
2,4,6-Tribromophenol (S)	61 %		25-150		1	06/10/08 08:03	06/17/08 16:26	118-79-6	

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QUALITY CONTROL DATA

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

QC Batch:	OEXT/3465	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water MSSV
Associated Lab Samples: 9220894001, 9220894002, 9220894003, 9220894004, 9220894005, 9220894006, 9220894007, 9220894008			

METHOD BLANK: 125852

Associated Lab Samples: 9220894001, 9220894002, 9220894003, 9220894004, 9220894005, 9220894006, 9220894007, 9220894008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	
1,2-Dichlorobenzene	ug/L	ND	10.0	
1,2-Diphenylhydrazine	ug/L	ND	10.0	
1,3-Dichlorobenzene	ug/L	ND	10.0	
1,4-Dichlorobenzene	ug/L	ND	10.0	
1-Methylnaphthalene	ug/L	ND	10.0	
2,4,5-Trichlorophenol	ug/L	ND	10.0	
2,4,6-Trichlorophenol	ug/L	ND	10.0	
2,4-Dichlorophenol	ug/L	ND	10.0	
2,4-Dimethylphenol	ug/L	ND	10.0	
2,4-Dinitrophenol	ug/L	ND	50.0	
2,4-Dinitrotoluene	ug/L	ND	10.0	
2,6-Dinitrotoluene	ug/L	ND	10.0	
2-Chloronaphthalene	ug/L	ND	10.0	
2-Chlorophenol	ug/L	5.3J	10.0	
2-Methylnaphthalene	ug/L	ND	10.0	
2-Methylphenol(o-Cresol)	ug/L	6.9J	10.0	
2-Nitroaniline	ug/L	2.9J	50.0	
2-Nitrophenol	ug/L	ND	10.0	
3&4-Methylphenol(m&p Cresol)	ug/L	8.0J	10.0	
3,3'-Dichlorobenzidine	ug/L	ND	50.0	
3-Nitroaniline	ug/L	19.7J	50.0	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	
4-Bromophenylphenyl ether	ug/L	ND	10.0	
4-Chloro-3-methylphenol	ug/L	4.7J	20.0	
4-Chloroaniline	ug/L	44.2J	50.0	
4-Chlorophenylphenyl ether	ug/L	4.0J	10.0	
4-Nitroaniline	ug/L	9.7J	50.0	
4-Nitrophenol	ug/L	4.9J	50.0	
Acenaphthene	ug/L	ND	10.0	
Acenaphthylene	ug/L	ND	10.0	
Aniline	ug/L	ND	10.0	
Anthracene	ug/L	ND	10.0	
Benzo(a)anthracene	ug/L	ND	10.0	
Benzo(a)pyrene	ug/L	ND	10.0	
Benzo(b)fluoranthene	ug/L	ND	10.0	
Benzo(g,h,i)perylene	ug/L	ND	10.0	
Benzo(k)fluoranthene	ug/L	ND	10.0	
Benzoic acid	ug/L	ND	50.0	
Benzyl alcohol	ug/L	ND	20.0	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	

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QUALITY CONTROL DATA

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

METHOD BLANK: 125852

Associated Lab Samples: 9220894001, 9220894002, 9220894003, 9220894004, 9220894005, 9220894006, 9220894007, 9220894008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	4.4J	10.0	
Butylbenzylphthalate	ug/L	ND	10.0	
Chrysene	ug/L	ND	10.0	
Di-n-butylphthalate	ug/L	ND	10.0	
Di-n-octylphthalate	ug/L	ND	10.0	
Dibenz(a,h)anthracene	ug/L	ND	10.0	
Dibenzofuran	ug/L	ND	10.0	
Diethylphthalate	ug/L	ND	10.0	
Dimethylphthalate	ug/L	ND	10.0	
Fluoranthene	ug/L	ND	10.0	
Fluorene	ug/L	ND	10.0	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	
Hexachlorobenzene	ug/L	ND	10.0	
Hexachlorocyclopentadiene	ug/L	ND	10.0	
Hexachloroethane	ug/L	ND	10.0	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	
Isophorone	ug/L	ND	10.0	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	
N-Nitrosodimethylamine	ug/L	11.6	10.0 B-	
N-Nitrosodiphenylamine	ug/L	ND	10.0	
Naphthalene	ug/L	ND	10.0	
Nitrobenzene	ug/L	ND	10.0	
Pentachlorophenol	ug/L	2.9J	50.0	
Phenanthrene	ug/L	ND	10.0	
Phenol	ug/L	5.0J	10.0	
Pyrene	ug/L	ND	10.0	
2,4,6-Tribromophenol (S)	%	66	25-150	
2-Fluorobiphenyl (S)	%	62	30-150	
2-Fluorophenol (S)	%	40	25-150	
Nitrobenzene-d5 (S)	%	74	30-150	
Phenol-d6 (S)	%	28	25-150	
Terphenyl-d14 (S)	%	71	30-150	

LABORATORY CONTROL SAMPLE: 125853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	18.9	38	19-120	
1,2-Dichlorobenzene	ug/L	50	21.5	43	19-120	
1,2-Diphenylhydrazine	ug/L	50	33.7	67	50-150	
1,3-Dichlorobenzene	ug/L	50	20.1	40	15-120	
1,4-Dichlorobenzene	ug/L	50	20.4	41	15-120	
1-Methylnaphthalene	ug/L	50	35.7	71	21-120	
2,4,5-Trichlorophenol	ug/L	50	27.6	55	23-113	
2,4,6-Trichlorophenol	ug/L	50	28.5	57	21-113	
2,4-Dichlorophenol	ug/L	50	23.5	47	12-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NC DFR MT. HOLLY D66-130E
Pace Project No.: 9220894

LABORATORY CONTROL SAMPLE: 125853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dimethylphenol	ug/L	50	27.2	54	24-120	
2,4-Dinitrophenol	ug/L	50	22.1J	44	10-127	
2,4-Dinitrotoluene	ug/L	50	30.8	62	36-115	
2,6-Dinitrotoluene	ug/L	50	25.0	50	37-114	
2-Chloronaphthalene	ug/L	50	23.8	48	36-101	
2-Chlorophenol	ug/L	50	23.2	46	24-120	
2-Methylnaphthalene	ug/L	50	34.9	70	19-120	
2-Methylphenol(o-Cresol)	ug/L	50	18.1	36	25-120	
2-Nitroaniline	ug/L	50	34.4J	69	30-109	
2-Nitrophenol	ug/L	50	28.4	57	24-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	17.9	36	24-120	
3,3'-Dichlorobenzidine	ug/L	50	40.8J	82	14-120	
3-Nitroaniline	ug/L	50	24.5J	49	23-133	
4,6-Dinitro-2-methylphenol	ug/L	50	29.4	59	10-128	
4-Bromophenylphenyl ether	ug/L	50	31.3	63	35-113	
4-Chloro-3-methylphenol	ug/L	50	26.8	54	32-107	
4-Chloroaniline	ug/L	50	9.4J	19	12-150	
4-Chlorophenylphenyl ether	ug/L	50	27.0	54	36-110	
4-Nitroaniline	ug/L	50	30.5J	61	12-150	
4-Nitrophenol	ug/L	50	9.3J	19	10-120	
Acenaphthene	ug/L	50	34.4	69	27-102	
Acenaphthylene	ug/L	50	32.7	65	25-105	
Aniline	ug/L	50	30.6	61	10-150	
Anthracene	ug/L	50	38.9	78	30-113	
Benzo(a)anthracene	ug/L	50	32.7	65	27-113	
Benzo(a)pyrene	ug/L	50	32.0	64	27-119	
Benzo(b)fluoranthene	ug/L	50	27.7	55	22-114	
Benzo(g,h,i)perylene	ug/L	50	30.2	60	10-129	
Benzo(k)fluoranthene	ug/L	50	25.6	51	24-111	
Benzoic acid	ug/L	50	ND	6	24-120 L2	
Benzyl alcohol	ug/L	50	16.1J	32	24-120	
bis(2-Chloroethoxy)methane	ug/L	50	28.1	56	32-120	
bis(2-Chloroethyl) ether	ug/L	50	25.4	51	29-120	
bis(2-Chloroisopropyl) ether	ug/L	50	35.8	72	22-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	48.9	98	29-125	
Butylbenzylphthalate	ug/L	50	42.1	84	33-120	
Chrysene	ug/L	50	33.5	67	23-112	
Di-n-butylphthalate	ug/L	50	41.5	83	38-116	
Di-n-octylphthalate	ug/L	50	42.1	84	32-122	
Dibenz(a,h)anthracene	ug/L	50	29.9	60	10-129	
Dibenzofuran	ug/L	50	29.4	59	37-107	
Diethylphthalate	ug/L	50	37.3	75	40-111	
Dimethylphthalate	ug/L	50	33.8	68	39-108	
Fluoranthene	ug/L	50	30.4	61	27-112	
Fluorene	ug/L	50	37.0	74	29-107	
Hexachloro-1,3-butadiene	ug/L	50	18.6	37	10-113	
Hexachlorobenzene	ug/L	50	27.7	55	29-119	
Hexachlorocyclopentadiene	ug/L	50	15.0	30	10-113	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NC DFR MT. HOLLY D66-130E

Pace Project No.: 9220894

LABORATORY CONTROL SAMPLE: 125853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hexachloroethane	ug/L	50	21.9	44	10-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	29.2	58	14-123	
Isophorone	ug/L	50	36.5	73	23-150	
N-Nitroso-di-n-propylamine	ug/L	50	35.5	71	31-104	
N-Nitrosodimethylamine	ug/L	50	9.7J	19	10-120	
N-Nitrosodiphenylamine	ug/L	50	35.7	71	27-139	
Naphthalene	ug/L	50	28.0	56	17-120	
Nitrobenzene	ug/L	50	28.2	56	27-120	
Pentachlorophenol	ug/L	50	21.2J	42	10-135	
Phenanthrene	ug/L	50	32.0	64	28-111	
Phenol	ug/L	50	7.7J	15	10-120	
Pyrene	ug/L	50	32.3	65	27-113	
2,4,6-Tribromophenol (S)	%			62	25-150	
2-Fluorobiphenyl (S)	%			56	30-150	
2-Fluorophenol (S)	%			31	25-150	
Nitrobenzene-d5 (S)	%			57	30-150	
Phenol-d6 (S)	%			24	25-150 1g	
Terphenyl-d14 (S)	%			67	30-150	

QUALITY CONTROL DATA

Project: NC DFR MT. HOLLY D66-130E
 Pace Project No.: 9220894

QC Batch:	OEXT/3523	Analysis Method:	MADEP EPH
QC Batch Method:	MADEP EPH	Analysis Description:	MADEP EPH NC Water
Associated Lab Samples:	9220894001, 9220894002, 9220894003, 9220894004, 9220894005, 9220894006, 9220894007, 9220894008		

METHOD BLANK: 128658

Associated Lab Samples: 9220894001, 9220894002, 9220894003, 9220894004, 9220894005, 9220894006, 9220894007, 9220894008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aliphatic (C09-C18)	ug/L	ND	100	
Aliphatic (C19-C36)	ug/L	ND	100	
Aromatic (C11-C22)	ug/L	ND	100	
2-Bromonaphthalene (S)	%	84	40-140	
2-Fluorobiphenyl (S)	%	80	40-140	
Nonatriacontane (S)	%	93	40-140	
o-Terphenyl (S)	%	79	40-140	

LABORATORY CONTROL SAMPLE & LCSD: 128659

128660

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	ug/L	300	179	185	60	62	40-140	3	50	
Aliphatic (C19-C36)	ug/L	400	349	339	87	85	40-140	3	50	
Aromatic (C11-C22)	ug/L	850	653	740	77	87	40-140	12	50	
2-Bromonaphthalene (S)	%				77	93	40-140			
2-Fluorobiphenyl (S)	%				79	91	40-140			
Nonatriacontane (S)	%				97	62	40-140			
o-Terphenyl (S)	%				73	54	40-140			

QUALIFIERS

Project: NC DFR MT. HOLLY D66-130E
Pace Project No.: 9220894

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- 1g Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of the 2 remaining acid surrogates.
- B- Analyte detected in method blank but was not detected in the associated samples.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1
1175212

Section A

Required Client Information:

Company: FFR	Report To: Mike Sabodish
Address: 120 Pennroc Dr Suite 109, Raleigh, NC	Copy To:
Email To: mSabodish@FandF.com	Purchase Order No.:
Phone:	Fax: Project Name: NC DFF Mt. Holly
Requested Due Date/TAT: Project Number: D66-130E	

Section B

Required Project Information:

Section C

Invoice Information:

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location:
STATE: NC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Status	8270 EPA PH	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
						DATE	TIME	DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			
1. MW-A1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	G				6.3.08	14:15			4	X							X X			001
2. MW-A3		G				6.3	14:45			4	X							X X			
3. MW-10		G				6.3	11			4	X							X X			
4. MW-11		G				6.3	13:15			4	X							X X			
5. MW-12		G				6.3	13:30			4	X							X X			
6. WSW-2		G				6.3	15:00			4	X							X X			
7. WSW-4		G				6.3	15:20			4	X							X X			
8. WSW-5		G				6.3	15:40			4	X							X X			
9.																					
10.																					
11.																					
12.																					
ADDITIONAL COMMENTS				RELINQUISHED BY/AFFILIATION				DATE	TIME	ACCEPTED BY/AFFILIATION				DATE	TIME	SAMPLE CONDITIONS					
								6.5.08	8:35					6.5.08	8:35						
								6.5.08	12:58					6.5.08	12:58	4.5 4 N Y					

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Eltas Ruwhi	
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 6.5.08

Temp in °C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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